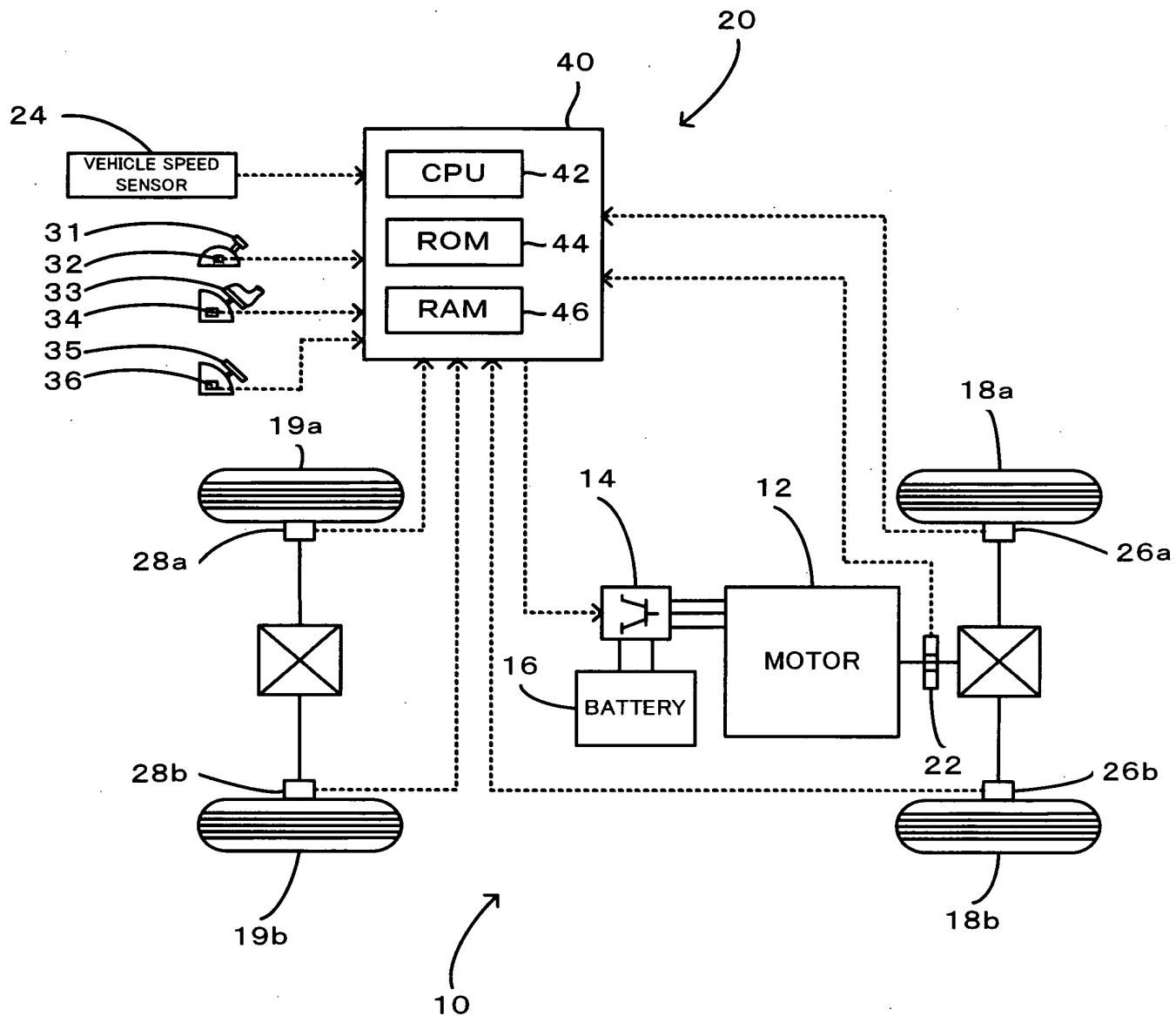
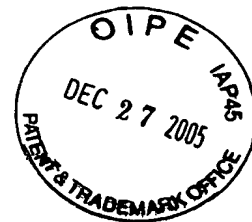


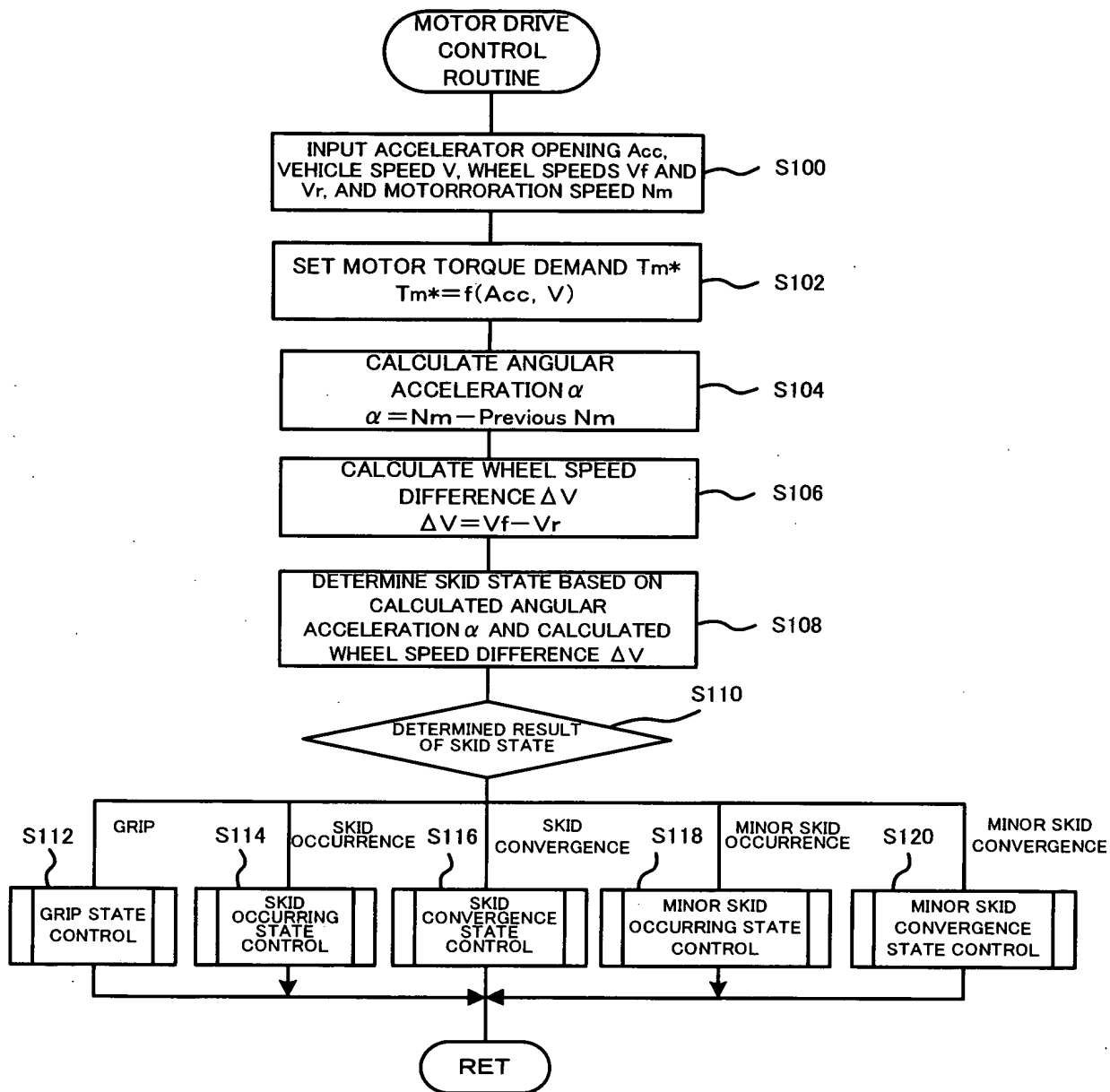
REPLACEMENT SHEET

FIG.1



REPLACEMENT SHEET

FIG.2



REPLACEMENT SHEET

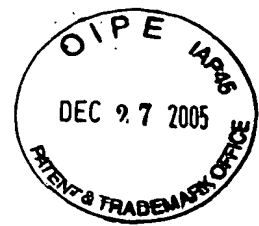
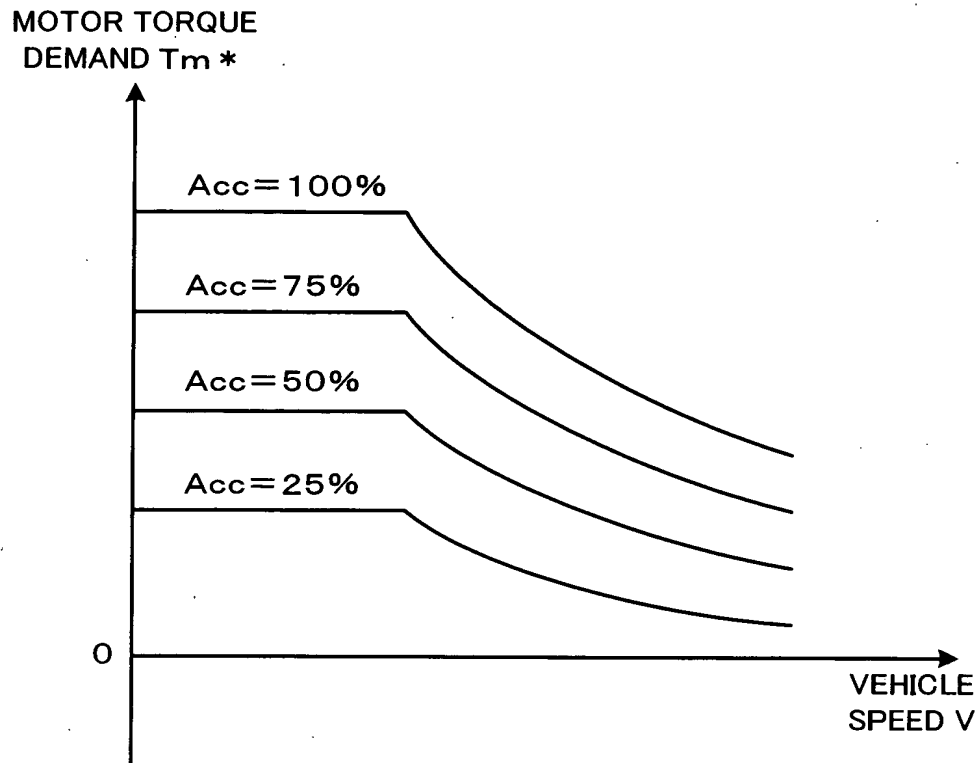


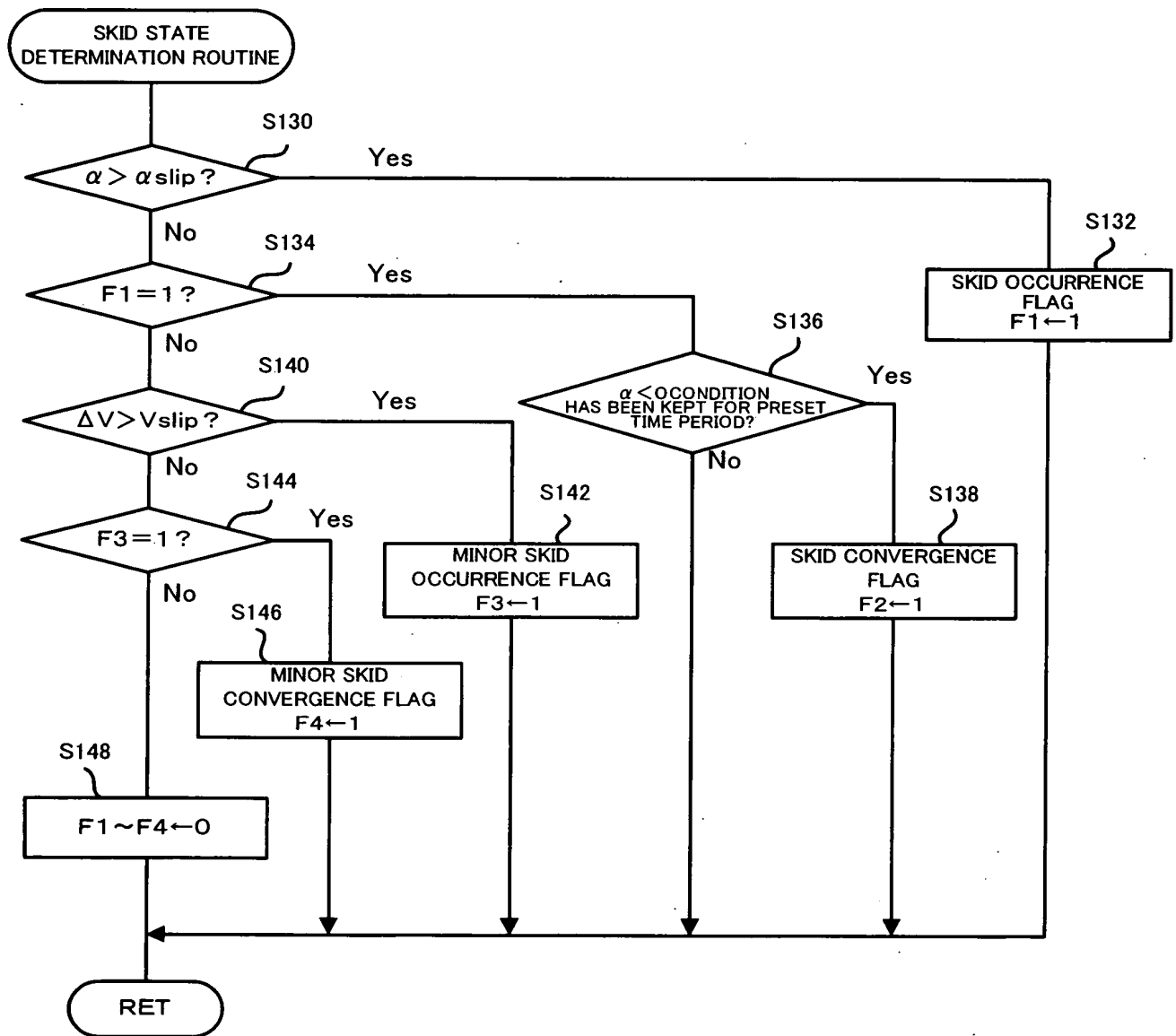
FIG.3



REPLACEMENT SHEET



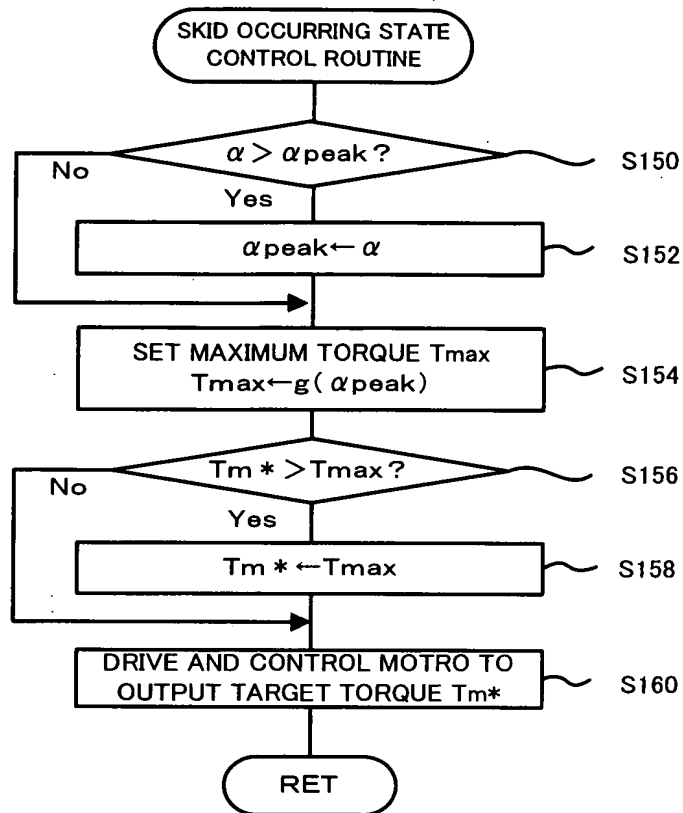
FIG.4



REPLACEMENT SHEET



FIG.5

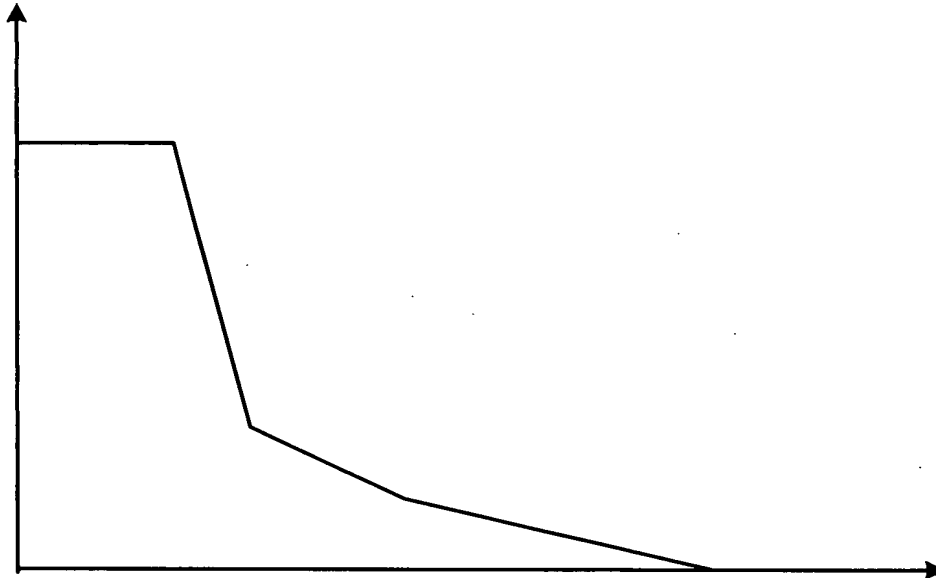


REPLACEMENT SHEET



FIG.6

MAXIMUM TORQUE
 T_{max}

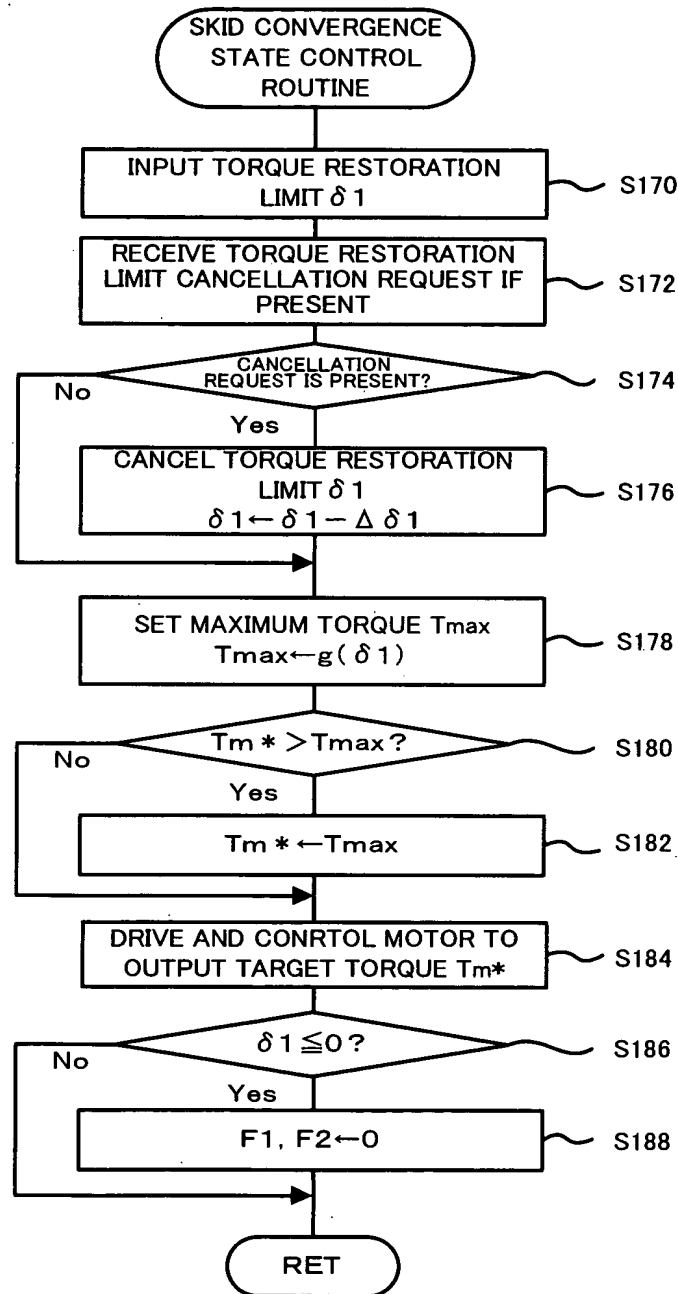


PEAK VALUE α_{peak} OF ANGULAR ACCELERATION,
TORQUE RESTORATION LIMIT $\delta 1$,
TORQUE RESTRICTION RATE $\delta 2$

REPLACEMENT SHEET



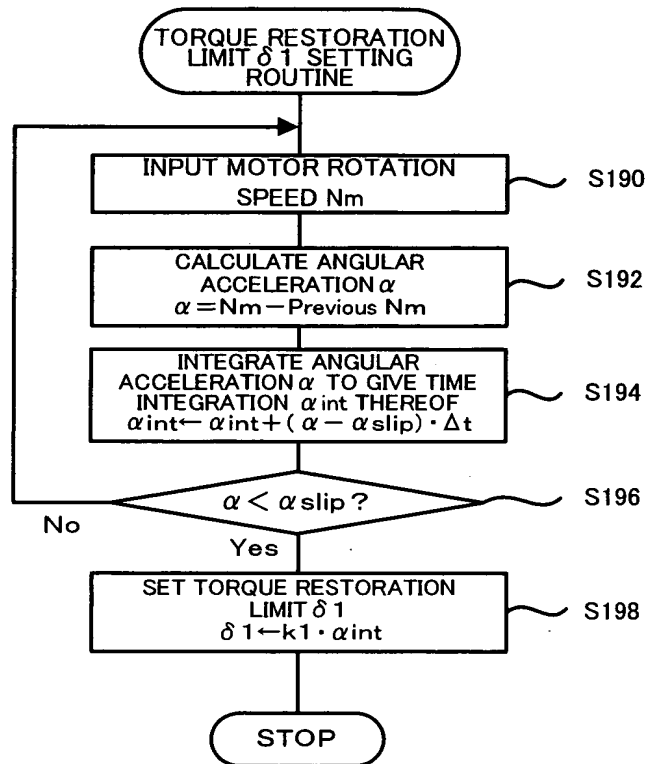
FIG.7





REPLACEMENT SHEET

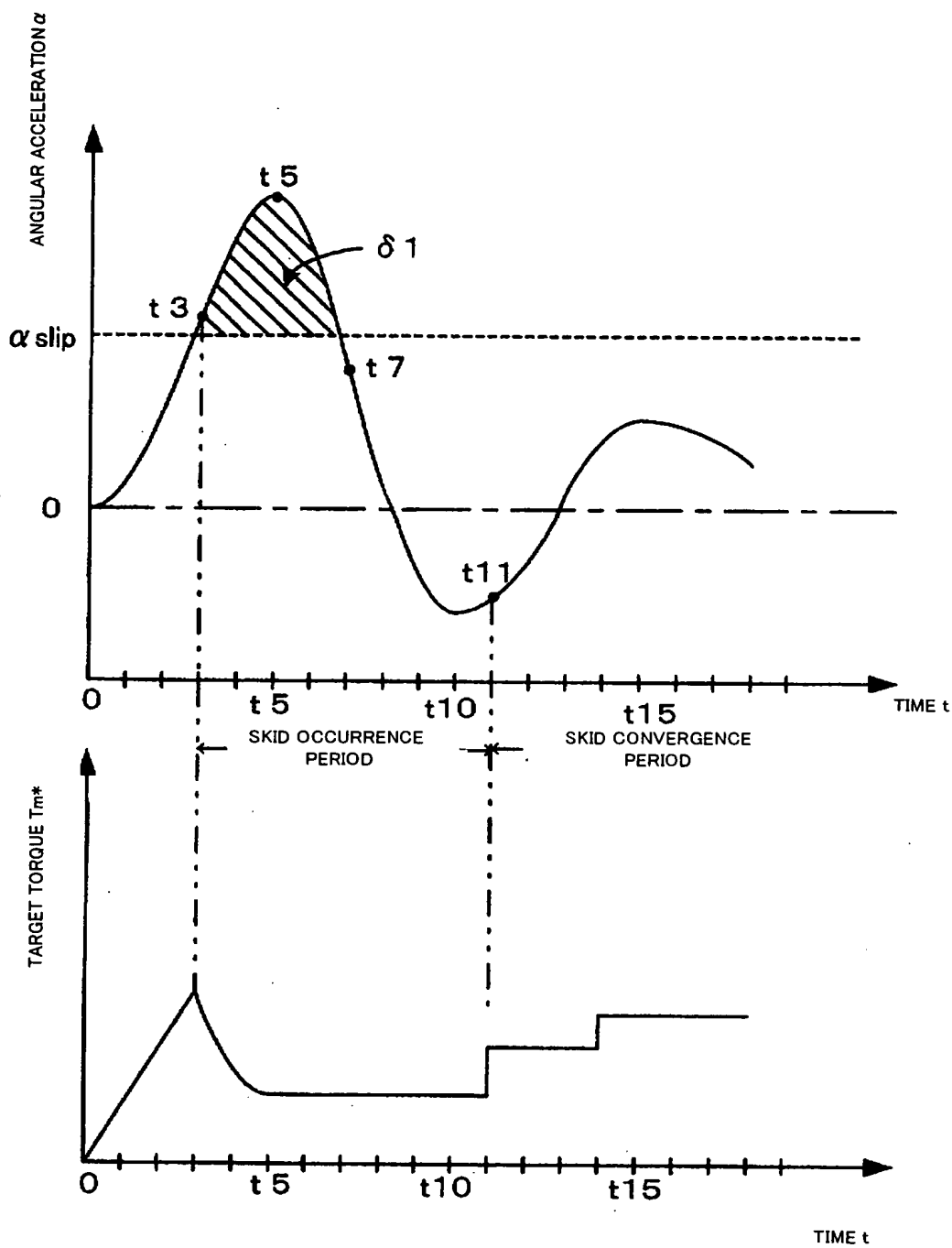
FIG.8



REPLACEMENT SHEET



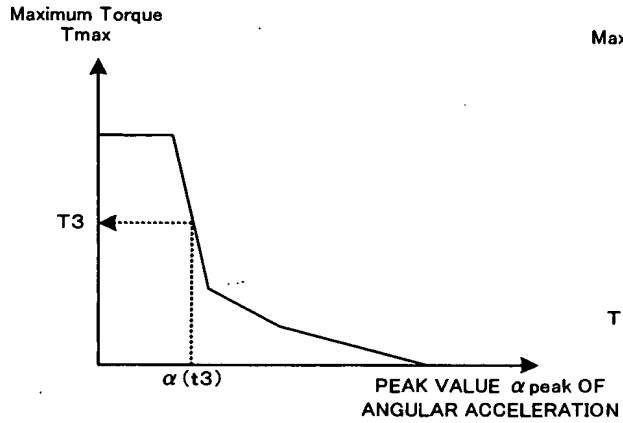
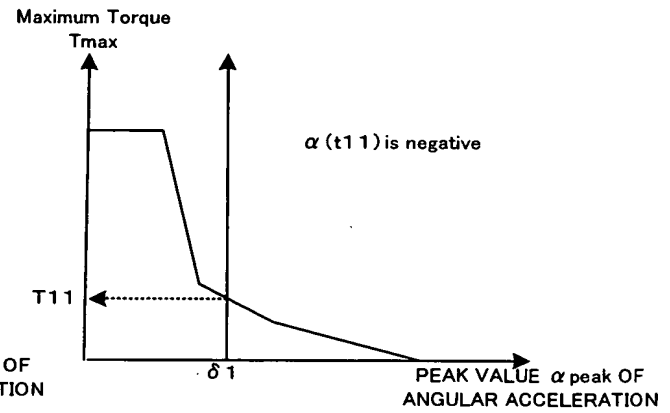
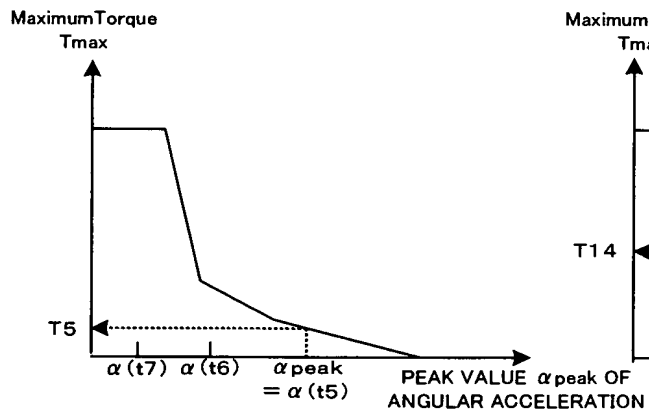
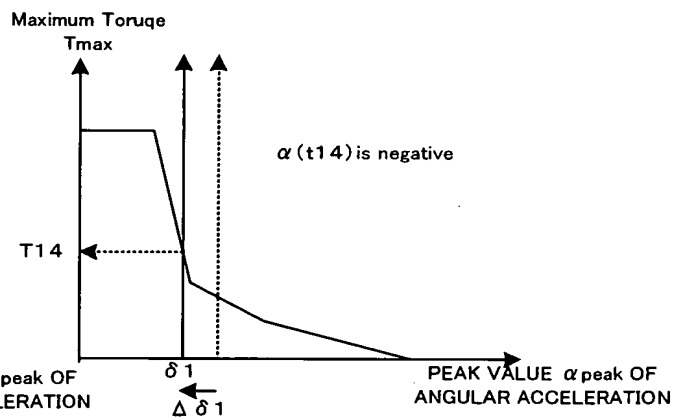
FIG.9



REPLACEMENT SHEET



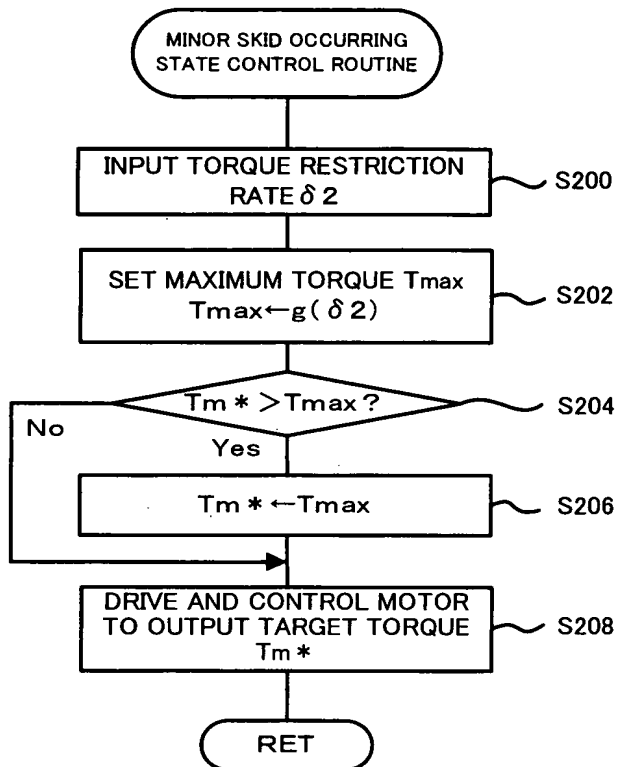
FIG.10

(a) Time Point t_3 (c) Time Point t_{11} to Time Point t_{13} (b) Time Point t_5 to Time Point t_{10} (d) After Time Point t_{14} 

REPLACEMENT SHEET



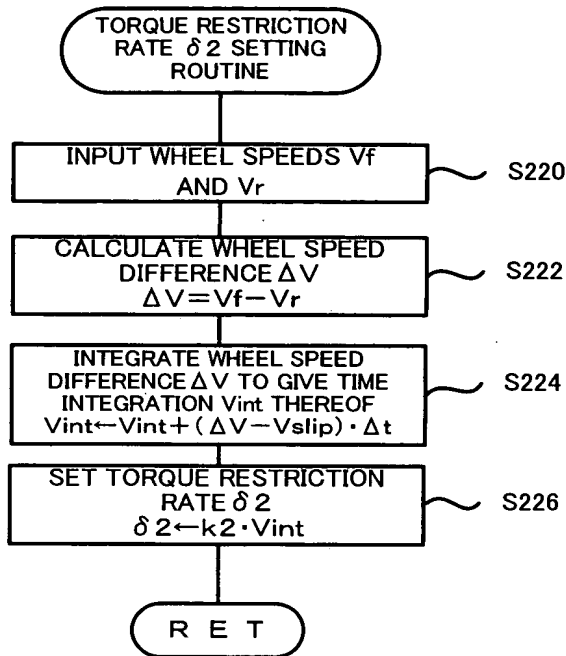
FIG.11



REPLACEMENT SHEET



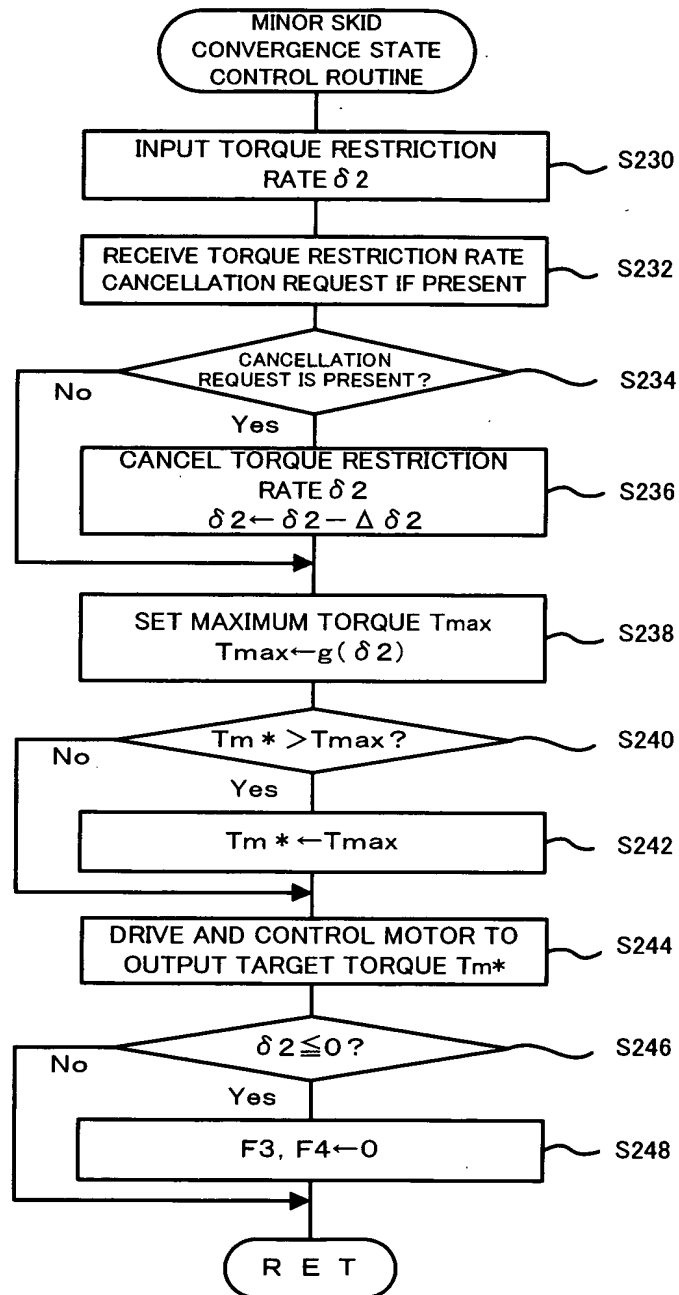
FIG.12



REPLACEMENT SHEET



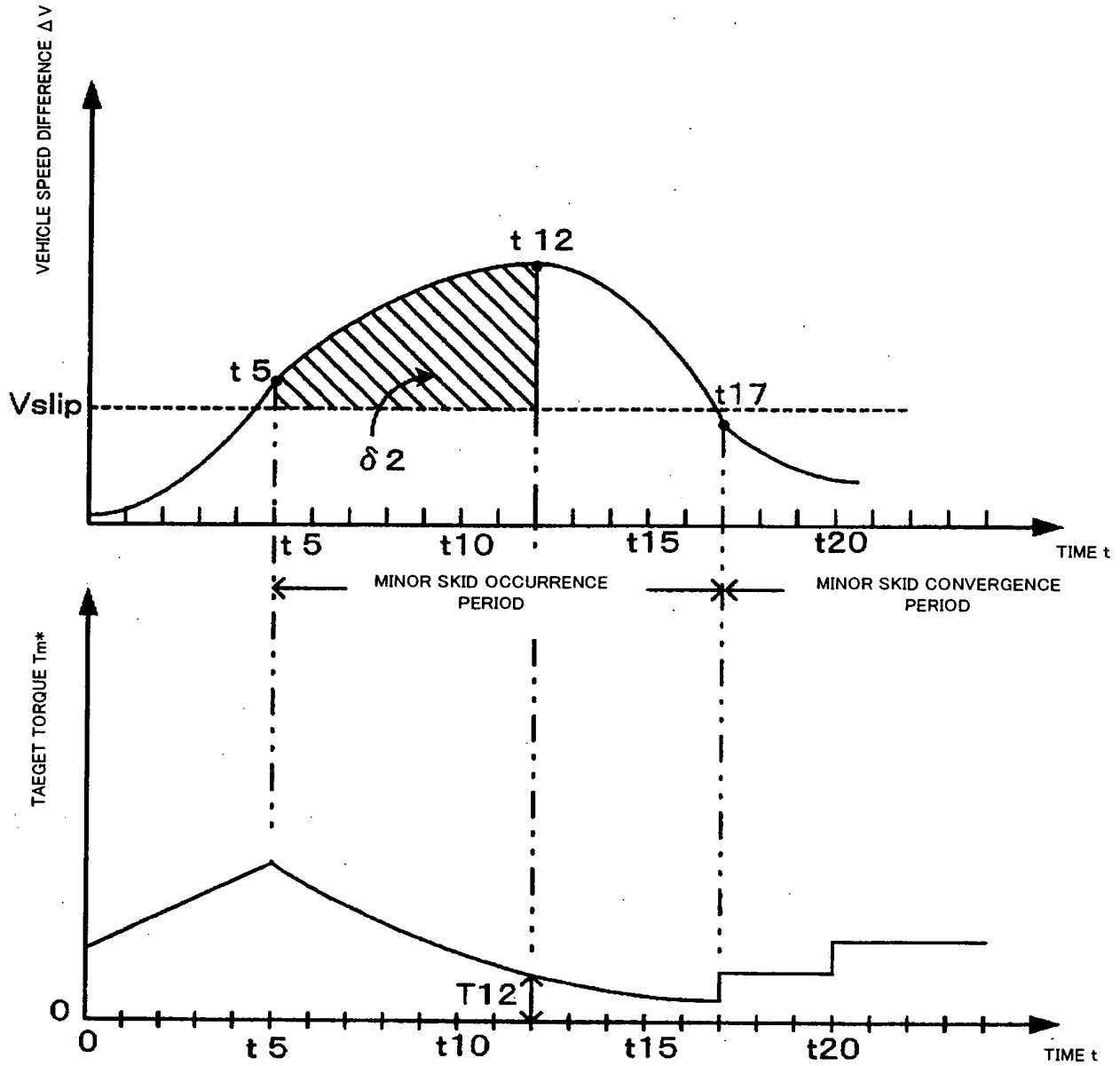
FIG.13



REPLACEMENT SHEET



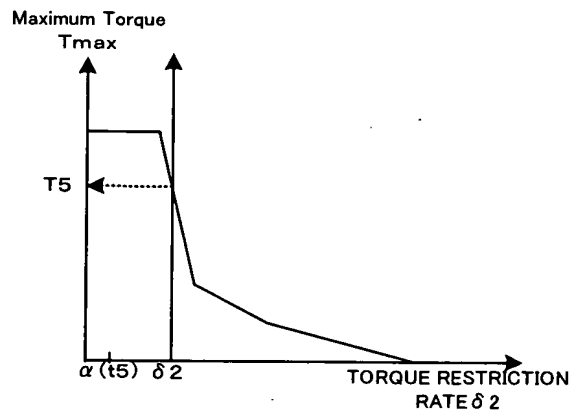
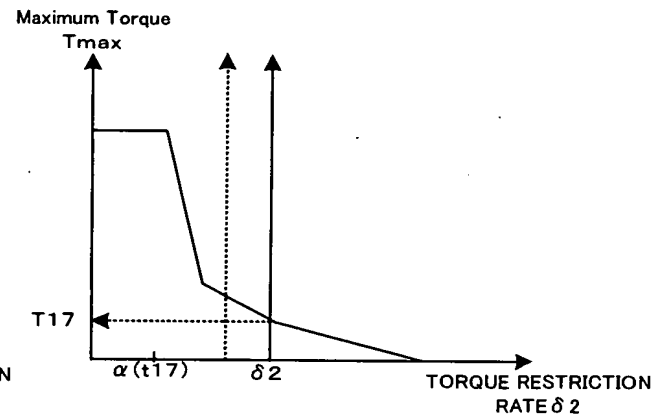
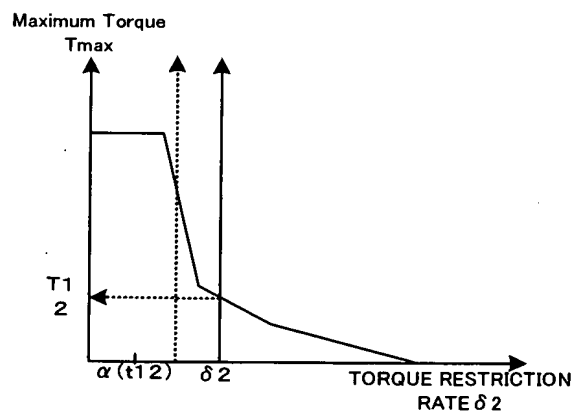
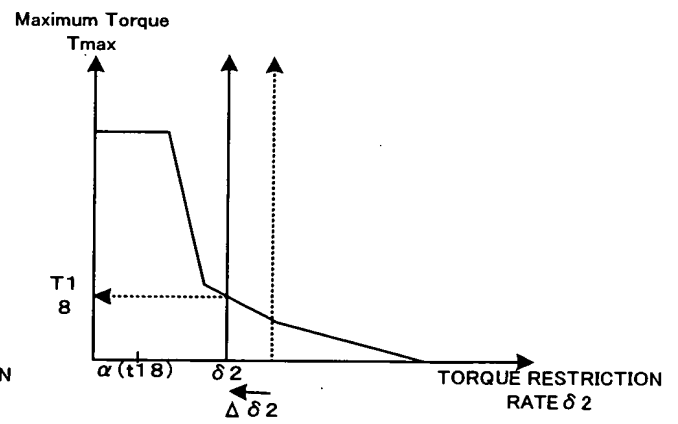
FIG.14



REPLACEMENT SHEET



FIG.15

(a) Time Point t_5 (c) Time Point t_{17} (b) Time Point t_{12} (d) Time Point t_{18} 

REPLACEMENT SHEET

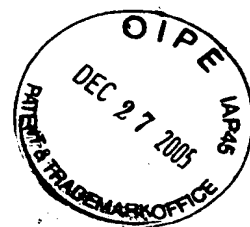
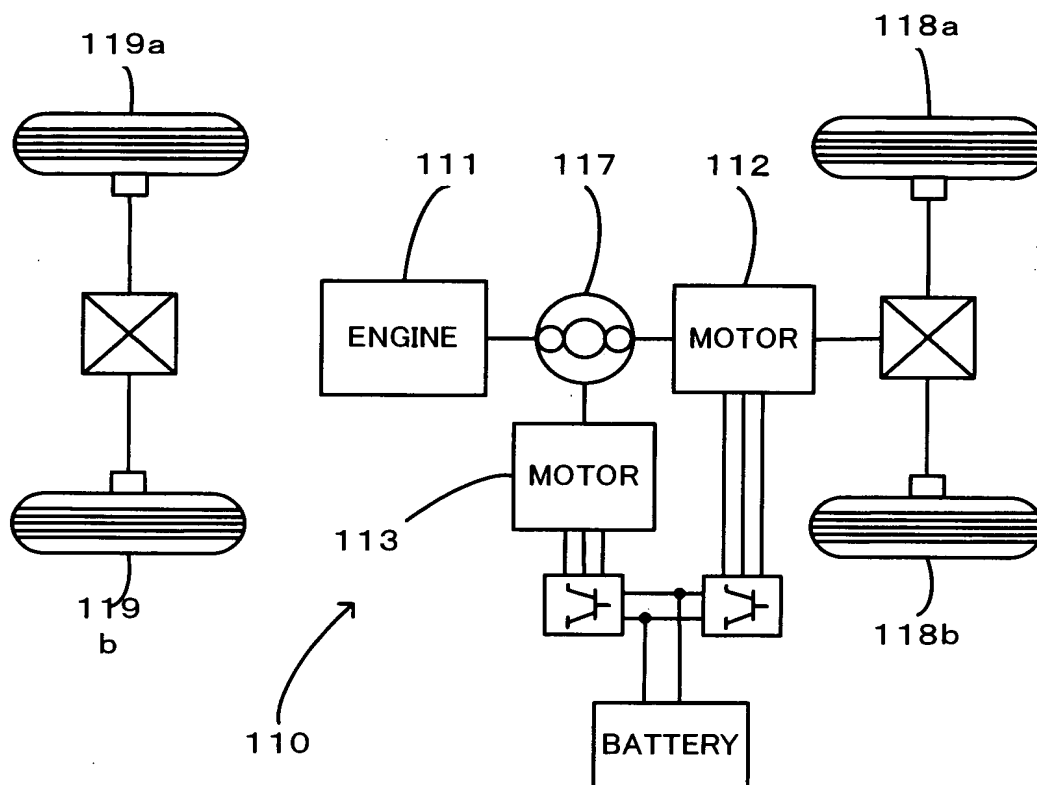


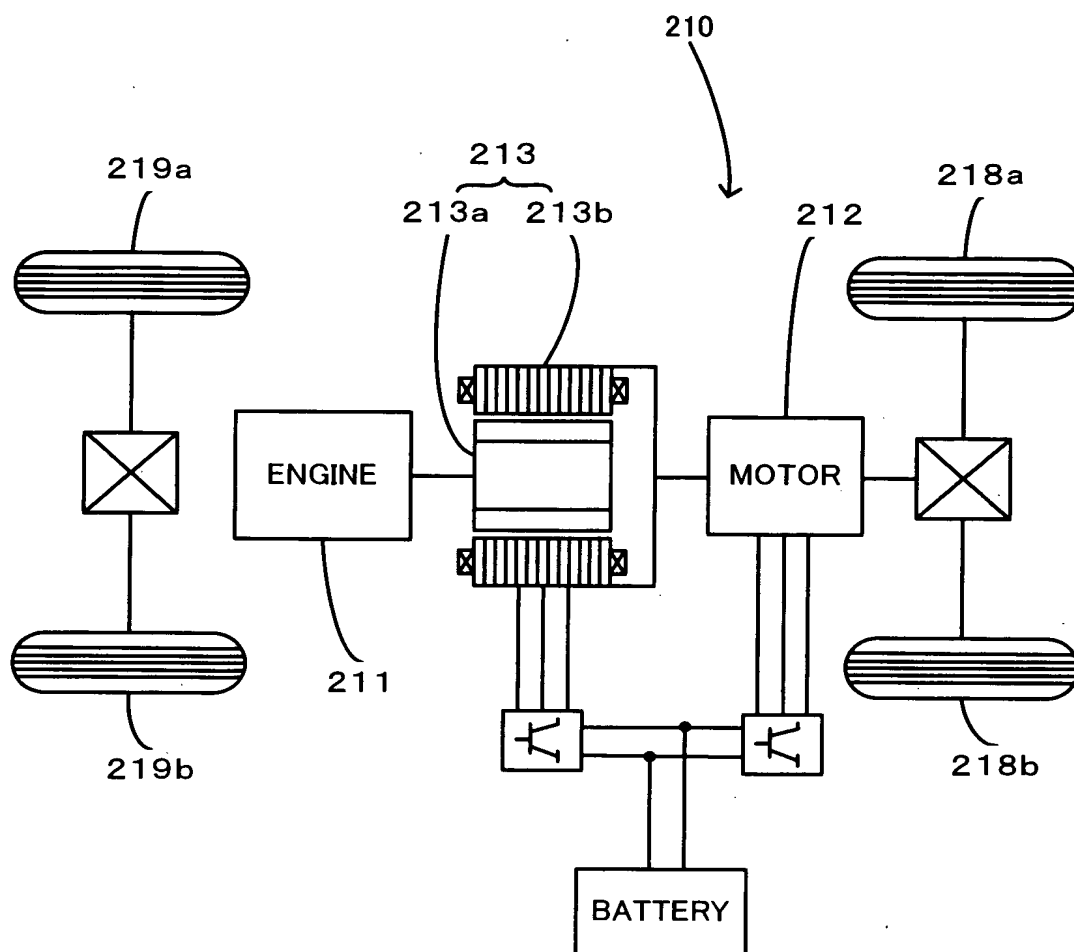
FIG.16



REPLACEMENT SHEET



FIG.17



REPLACEMENT SHEET

FIG.18

